

Microprocessor Peripherals (82Cxx)

82C54, CMOS Programmable Interval Timer
Fully compatible with NMOS 8254, enhanced version of NMOS 8253. Three independent 16 bit counters. Six programmable counter modes. Binary or BCD counting. Status read back command. Static CMOS Design For Low Power: ICCSB = 10 μ A, ICCOP = 10 mA at 8 MHz.

Mfr.'s Type	Operating Frequency (MHz)	Operating Voltage (V)	Package Type	Temperature Range (°C)
CP82C54 CP82C54-12 CS82C54 CS82C54-12	8.0 12.5 8.0 12.5	5.0 5.0 5.0	24 Lead PDIP 24 Lead PDIP 28 Lead PLCC 28 Lead PLCC	0 to +70 0 to +70 0 to +70 0 to +70
US02US4-12 IP82C54	12.5	5.0 5.0	26 Lead PLCC 24 Lead PDIP	-40 to +85

82C55A, CMOS Programmable Peripheral InterfaceFully compatible with NMOS 8255A. 24 programmable I/O pins. High speed, no wait state operation with 5 MHz and 8 MHz 80C86 and 80C88. Direct bit set/reset compatibility. Enhanced control word read capability. 2,5 mA drive capability on all I/O ports. Static CMOS Design For Low Power: ICCSB = 10 μ A. Fully TTL compatible.

CP82C55A CS82C55A 40 Lead PDIP 44 Lead PLCC 5.0 5.0

82C59A, CMOS Priority Interrupt Controller Fully compatible with the NMOS 8259A. Eight level priority controller, expandable to 64 levels. Programmable interrupt modes, individual request mask capability. Static CMOS Design For Low Power Operation: ICCSB = $20~\mu$ A max., ICCOP = 1 mA/MHz max. Fully TTL compatible. CP82C59A CP82C59A-12 8.0 12.5 5.0 5.0

Data Communications

HD-4702, CMOS Programmable Bit Rate Generator
Provides 13 commonly used bit rates. Uses a 2.4576 MHz crystal/input for standard frequency Output (16 times bit rate).
Conforms to EIA RS-404. One HD-4702 controls up to eight transmission channels. Initialization circuit facilitates diagnostic fault isolation. On chip input pull-up circuit

Mfr.'s	Operating	Operating	Package Type	Temperature Range
Type	Frequency (MHz)	Voltage (V)		(°C)
HD3-4702-9	_	5.0	16 Lead PDIP	-40 to +85

HD-6402, CMOS Universal Asynchronous Receiver/Transmitter (UART) Lower power cMOS design. Programmable word length, stop bits, and parity. Automatic data form

tting and status generation. Compatible with industry standard UARTs. Single 5 V power supply. CMOS/TTL Compatible inputs. HD3-6402R-9 2.00 5.0 40 Lead PDIP

HD-6409, CMOS Manchester Encoder/Decoder

oder and decoder operation. Static 1 MBits/s data rate guaranteed. Low bit error rate. Digital PLL clock recovery. On chip oscillator. Low Operating Power: 50 mW (typ.) at 5 V. HD3-6409-9 1.00 5.0 -40 to +85

Digital Signal Synthesis

Oscillator

Mfr.'s Type			Clock Speed (MHz)	Dynamic Range (dBc)	Output (Bits)	Modulation Techniques	Res. at Max. (Hz)	Package
HSP45102PC-40	Oscillator	12	40	69	12 Sin	QPSK, FSK	0.012	28 PDIP

High Speed Data Converters

Sample and Hold Amplifiers

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Mfr.'s Type		Description	Acquisition Time	Droop Rate	Hold Step	Hold Mode Settling Time	Aperture Uncertainty	Gain Bandwidth	Input Offset Voltage	Supply Voltage	Supply Current	No. of Leads
CDIP Package	PDIP Package		(to 0.01%)	(μV/μS)	Error (mV)	(ns to ±1 mV)	(ps)	Product (MHz)	(mV Max.)	(±VDČ)	(mA/Amp)	Leaus
HA1-2425-5	HA3-2425-5	3.2 µs Acquisition Time Sample and Hold Amplifier	3200	_	10.0	860	5000	2.5	6.0	15.0	3	14

Display Circuits

31/2 Digit with LED/LCD Drivers

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Mfr.'s Type	Features	Display Type	Display Drive	Conversion Type	Conversion Time (µs)	Technology	Range Min.	Linearity Counts	No. of Leads
ICL7106CPL	Low Noise, Low Power, True Differential Input and Reference	LCD	Direct Drive	Auto-Zero Integrating	333 Typ.	CMOS-JI	±0.2 V	±1	40
ICL7107CPL	Low Noise, Low Power, True Differential Input and Reference	LED	Direct Drive	Auto-Zero Integrating	333 Typ.	CMOS-JI	±0.2 V	±1	40
ICL7117CPL	Display Hold Version of the ICL7107	LED	Direct Drive	Auto-Zero Integrating	333 Typ.	CMOS-JI	±0.2 V	±1	40
ICL7136CPL	Overrange Recovery Version of the ICL7106	LCD	Direct Drive	Auto-Zero Integrating	333 Typ.	CMOS-JI	±0.2 V	±1	40
ICL7137CPL	Overrange Recovery Version of the ICL7107	LED	Direct Drive	Auto-Zero Integrating	333 Typ.	CMOS-JI	±0.2 V	±1	40

Display Drivers

Mfr.'s Type			No. of Decimal Points	Display Type	Font	Interface	Cycle Time (ns)	Package Type
ICM7211AMIPL	7 Segment Non-MUX LCD Display Outputs with Backplane Driver	4	0	LCD Direct Drive	Code B	Random Access	200	40 Lead PDIP
ICM7212AMIPL	7 Segment Non-MUX LED Display Driver	4		LED Common Anode Non-MUX	Code B	Random Access	200	40 Lead PDIP
ICM7218AIJI	8 Digital Universal LED Driver with Common Anode	8	8	LED Common Anode MUX	HEX/Code B	Bit Parallel, Digit Serial	550	28 Lead CERDIP
ICM7218DIJI	8 Digital Universal LED Driver with Common Anode	8		LED Common Cathode MUX	HEX/Code B	Random Access	550	28 Lead CERDIP
ICM7228AIPI	8-Digit uProcessor Compatible LED Display Decoder Driver	8	8	LED Common Anode MUX	HFX/Code B	Bit Parallel Digit Serial	550	28 Lead PDIP

^{*}AlphaNumeric.